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New England Biolabs Certificate of Analysis

ΦX174 RF II DNA
N3022S/L
1,000 µg/ml
N/A
1241804
04/2018
04/2020
-20°C
10 mM Tris-HCl (pH 8.0), 1 mM EDTA
PS-N3022S/L v1.0
28 Apr 2015

Assay Name/Specification (minimum release criteria)	Lot #1241804
A260/A280 Assay - The ratio of UV absorption of Φ X174 RF II DNA at 260 and 280 nm is between 1.8 and 2.0.	Pass
DNA Concentration (A260) - The concentration of Φ X174 RF II DNA is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.	Pass
Electrophoretic Pattern (Plasmid) - The banding pattern of $\Phi X 174$ RF II DNA on a 1.2% agarose gel is evaluated against a control lot for sharpness and relative intensity as determined by gel electrophoresis using Ethidium Bromide.	Pass
Non-Specific DNase Activity (DNA, 16 hour) - A 50 μ l reaction in 1X NEBuffer 2 containing 5 μ g of Φ X174 RF II DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Restriction Digest (Linearization) - A 50 μ l reaction in CutSmart TM Buffer containing 5 μ g of Φ X174 RF II DNA DNA and 20 units of XhoI incubated for 1 hour at 37°C produces > 95% linearization resulting in a single band of approximately 5386 bp as determined by agarose gel electrophoresis.	Pass

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Authorized by Derek Robinson 28 Apr 2015



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Inspected by Vanessa Mathieu-Sheltry 20 Apr 2018